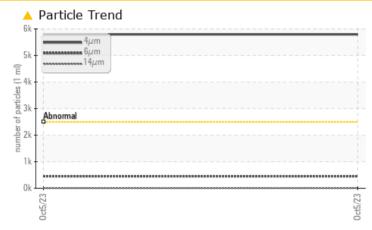


Turbine Bearing Fluid SHELL TURBO T ISO 68 (25 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST	RESULTS				
Sample Status			ABNORMAL		
Particles >4µm	ASTM D7647	>2500	<u> </u>		
Particles >6µm	ASTM D7647	>320	453		
Oil Cleanliness	ISO 4406 (c)	>18/15/13	<u> </u>		
PrtFilter				no image	no image

Sample Rating Trend

Customer Id: USACLI Sample No.: PH05980374 Lab Number: 05980374 Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u> There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



Sample Rating Trend

Area [181965-N2STV4W] Machine Id HYDRO TURBINE UNIT 1 Component

Turbine Bearing Fluid SHELL TURBO T ISO 68 (25 GAL)

DIAGNOSIS

A Recommendation

Parker

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

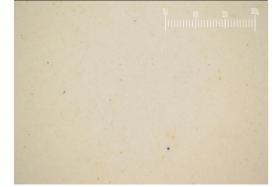
Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Particle Filter (Magn: 200 x)



SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PH05980374		
Sample Date		Client Info		05 Oct 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>20	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>20	0		
Lead	ppm	ASTM D5185m	>20	<1		
Copper	ppm	ASTM D5185m	>20	0		
Tin	ppm	ASTM D5185m	>20	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		5		
Phosphorus	ppm	ASTM D5185m		5		
Zinc	ppm	ASTM D5185m		10		
Sulfur	ppm	ASTM D5185m		284		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2		
Sodium	ppm	ASTM D5185m		6		
Potassium	ppm	ASTM D5185m	>20	<1		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	6 5793		
Particles >6µm		ASTM D7647	>320	<u> </u>		
Particles >14µm		ASTM D7647	>80	9		
Particles >21µm		ASTM D7647	>20	2		
Particles >38µm		ASTM D7647	>4	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/15/13	20/16/10		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	.05	0.067		



Acid Number

Viscosity @ 40°C

0.08 (B/H0) B y Bu 10.04

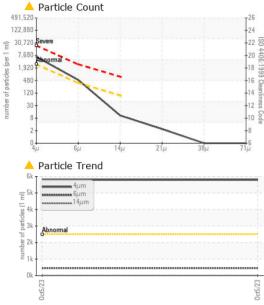
Pice 0.02 0.00 0ct5/23

> 80 75 Abnorma

(70°C) Ba -73 65 60 Abnorm

> 55 0ct5/23

OIL ANALYSIS REPORT



White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water	scalar * scalar * scalar * scalar * scalar * scalar *	*Visual *Visual *Visual *Visual *Visual	NONE NONE NONE NONE NONE	NONE NONE NONE NONE		
Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water	scalar * scalar * scalar * scalar * scalar *	*Visual *Visual *Visual *Visual	NONE NONE NONE	NONE NONE		
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water	scalar * scalar * scalar * scalar * scalar *	*Visual *Visual *Visual	NONE NONE	NONE		
Debris Sand/Dirt Appearance Odor Emulsified Water Free Water	scalar * scalar * scalar * scalar *	*Visual *Visual	NONE			
Sand/Dirt Appearance Odor Emulsified Water Free Water	scalar * scalar * scalar *	*Visual		NONE		
Appearance Odor Emulsified Water Free Water	scalar * scalar *		NONE	NONE		
Odor Emulsified Water Free Water	scalar *	Visual		NONE		
Emulsified Water Free Water			NORML	NORML		
Free Water	scalar *	Visual	NORML	NORML		
	304141	*Visual	>2	NEG		
	scalar *	*Visual		NEG		
FLUID PROPERTI	ES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt A	ASTM D445	68	67.5		
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image
PrtFilter					no image	no image
iron chromium 0 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			Par	ticle Filter (Ma	Оµ	0 20 ³⁰⁰ 11111111
10 5 5 10 10 10 10 10 10 10 10 10 10			53			
0			12/3			
Viscosity @ 40°C			0ct5/23	Acid Number	· · · · ·	
0ct5/23				Acid Number	· · · · ·	
Viscosity @ 40°C				Acid Number		
Viscosity @ 40°C						
Viscosity @ 40°C			(0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,			Deficiency Deficiency
1	Color Bottom PrtFilter GRAPHS Ferrous Alloys	Bottom PrtFilter GRAPHS Ferrous Alloys	Color Bottom PrtFilter GRAPHS Ferrous Alloys	Color Bottom PrtFilter GRAPHS Ferrous Alloys	Color Bottom PrtFilter CRAPHS Ferrous Alloys Particle Filter (Ma P	Color no image Bottom no image PrtFilter no image PrtFilter no image GRAPHS Ferrous Alloys